



## Author

- |                             |                           |
|-----------------------------|---------------------------|
| Allen, J.M.S. ....118       | Le Jambre, L.F. ....60    |
| Beets, W.C. ....24          | Lumbers, J.A. ....60      |
| Bell, R.D. ....131          | Melville, A.R. ....88     |
| Bousquet, J. ....83         | Pickard, D.H. ....76, 100 |
| Bunting, A.H. ....3         | Reid, I.G. ....50         |
| Carles, A.B. ....127        | Rennie, N. ....20         |
| Cherry, M. ....114          | Richter, J. ....38, 75    |
| Cornwell-Smith, M.J. ....12 | Roberts, T.R. ....85      |
| Cour, P. ....83             | Rossides, S.C. ....11, 80 |
| De Lima, C.P.F. ....104     | Ryder, M.L. ....36        |
| Duffus, C.M. ....63         | Saini, R.K. ....98        |
| Fryer, J.D. ....5           | Seal, K.J. ....130        |
| Goodwin, R.F.W. ....31      | Simkins, J. ....11, 102   |
| Gowen, S.R. ....111         | Smith, P.M. ....63        |
| Green, J.O. ....66          | Smith, R.W. ....118       |
| Gregory, K.E. ....28        | Stapley, J.H. ....88      |
| Healey, A.G. ....16, 117    | Trail, J.C.M. ....28      |
| Huber, B. ....10            | Villareal, R.L. ....72    |
| Johnson, R.A. ....108       | Whittemore, C.T. ....33   |
| Kashi, K.P. ....69          | Whyte, R.O. ....57        |
| Kelly, J.D. ....123         | Wilson, P.N. ....121      |
| Lamprey, H.F. ....53        | Woodbridge, A.P. ....85   |
| Lazenby, A. ....66          | Young, N.A. ....78        |

# Subject

*Acanthoscelides obtectus*, .104 (fig.)  
 Adzuki bean, .65 (fig.)  
 Aerial spraying, .88, 133  
 Afghanistan, remote sensing by satellite, .38  
 Africa, cattle improvement, .28 (fig.), 29 (figs.), 30 (figs.)  
 desert encroachment, .53, 54 (fig.), 55 (figs.), 56  
 goat production, .127 (fig.), 128 (figs.), 129 (fig.)  
 losses in stored food, .104 (figs.), 105 (fig.), 106 (figs.), 107 (fig.)  
 rabies, .31  
 tobacco production, .80, 81 (fig.)  
 tomato production, .74 (fig.)  
 Agricultural marketing, developing countries, .100, 101  
 Agricultural Resource Inventory Through Aerospace Remote Sensing, (AGRISTARS), .38  
 Agricultural Show, Royal International, Stoneleigh, UK, .136  
 Agriculture, changes forecast in various countries, .1, 2, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27  
*Agrostis* spp., .67  
 Albendazole, .124 (fig.)  
 Aldicarb, .111 (fig.), 113  
 Aldrin, .110  
 Alkali treatment, straw, .130  
*Amiteles* sp., .109 (fig.)  
 Ammonia, digestibility of straw and use of, .130  
*Anabaena* sp., .4  
 Anaemia, goat, .60, 61  
 Angola, tobacco production, .81 (fig.)  
 tomato production, .74 (fig.)  
 Animal breeding, cattle, .28, 29 (figs.), 30 (figs.)  
 deer, .15  
 future of, .2, 21, 22  
 goats, .61 (fig.), 62 (fig.)  
 sheep, .36, 37 (figs.)  
 Animal feedstuffs, straw, .130  
 Animal health, Aujeszky's disease, .31, 32  
 enzootic bovine leukosis, .31, 32  
 helminth infections, .60 (fig.), 61 (figs.), 62 (fig.), 123, 129  
 intensive livestock production and, .121 (fig.), 122 (fig.), 123 (fig.)  
 rabies, .31, 32 (fig.)  
 swine vesicular disease (SVD), .31, 32 (fig.)  
 trypanosomiasis, .98, 127, 129  
 UK disease control policies, .31, 32 (fig.)  
 Animal nutrition, deer, .13  
 pig, .34 (figs.), 35 (fig.)  
 sheep, .36, 37  
 Ant, control, .87  
 Anthelmintic compounds, .62 (fig.), 123, 124 (figs.), 125 (fig.), 126 (fig.)  
 Antler velvet production, .12 (fig.), 13 (fig.), 14  
 Apple production, crop prediction, .84 (fig.)  
 future of in UK, .18, 19  
*Arachis* sp., .64, 65 (fig.)  
 Argentina, remote sensing by satellite, .38  
 venison exports, .14 (fig.)  
 world cereal futures market and, .102, 103 (fig.)  
*Arvicandis niloticus*, .104  
 Asia, population increases, .57  
 rabies, .31  
 rural development, .57 (figs.), 58 (figs.), 59  
 Asian Vegetable Research and Development Centre (AVRDC), .4, 72, 101

*Aspergillus* spp., .104  
 Aujeszky's disease, pig, .32  
 Australia, agricultural education, distant learning, .117  
 remote sensing by satellite, .38  
 world cereal futures market and, .102, 103 (fig.)  
 Austria, venison exports, .14 (fig.)  
*Azolla* sp., .4

## b

Bacterial wilt, tomato, .73, 74  
 Banana, nematode control, .111 (fig.), 113 (fig.)  
 production, Windward Islands, .133 (fig.)  
 Bangladesh, wheat improvement, .4  
 Barber's pole worm, .60, 61, 62  
 Barley, remote sensing by satellite, .38  
 herbicide use, .5 (fig.), 6 (figs.), 7 (fig.), 9, 10  
 world futures market, .102 (fig.)  
 Bean, human nutrition and, .65  
 losses in storage, .105 (fig.), 106 (fig.)  
 world production, .63 (fig.)  
 Bee, pollination of legumes, .63  
 Beef production, economics of, .14 (fig.)  
 Kenya, .28 (fig.), 29 (figs.), 30 (figs.), 55, 56  
 grassland utilisation and, .67 (fig.), 68, 69  
 Belgium, farm finances, .50 (fig.), 51 (fig.), 52 (fig.)  
*Belonolaimus longicaudatus*, .111 (fig.), 112  
 Benzene hexachloride, .110  
 Benzimidazole, .62, 124 (fig.), 125  
 Biological control, insect pests on coconut, .120  
 Bird pests, stored crops, .104  
 Black bean, .65  
 Black scour worm, .61, 62  
 Book reviews  
*Acute Toxicity in Theory and Practice*, by Brown, .136  
*Chemical Concepts in Pollutant Behaviour*, by Tinsley, .39  
*Effective Writing in Advisory Work*, by Cherry and Harvey, .135  
*Farming and Wildlife*, by Mellanby, .135  
*Field Crops Diseases Handbook*, by Nyvall, .39  
*Food Policies*, by Tarrant, .134  
*Hormone Weedkillers, the*, by Kirby, .136  
*Lost Harvest, the*, anon (FAO booklet), .40  
*New Technology of Pest Control*, ed. Huffaker, .40  
*Opportunities for Increasing Crop Yields*, ed. Hurd, Biscoe and Dennis, .134  
*Pest and Disease Control Handbook*, ed. Scopes and Lidieu, .40  
*Plant Disease Control*, by Sharvelle, .39  
*Plant Disease Epidemiology*, ed Scott and Bainbridge, .39  
*Principles and Methods of Plant Breeding*, by Fasoulas, .136  
*Research Digest 1980*, Institute for Land and Water Management Research, .136  
*Rice Improvement in China and other Asian Countries*, by IRR and Chinese Academy of Agricultural Sciences, .134  
*Science of 2, 4, 5-T and Associated Phenoxy Herbicides, the*, by Bovey and Young, .40  
*Seed Production*, ed. Hebblethwaite, .135

*Seeds and their Uses*, by Duffus and Slaughter, .136  
*Struggle for Food Security, the*, by Sharp (FAO booklet), .40  
*Successful Seed Programs: a Planning and Management Guide*, ed. Douglas, .134  
*Theory of Plant Breeding, the*, by Mayo, .135  
*Tropical Fruits*, by Samson, .135  
*Use and Significance of Pesticides in the Environment, the*, by McEwen and Stephenson, .39  
*Who's Who in World Agriculture*, by Hodgson, .40

*Bos* spp., .28, 29 (fig.), 30 (figs.)  
 Brazil, forest survey, .75  
 remote sensing by satellite, .38  
*Rhizobium* inoculation training course, .116  
 tobacco exports, .80, 81  
 tomato production, .74 (fig.)  
 Broad bean, .64 (fig.), 65 (fig.)  
 Bromosolans, .124 (fig.)  
 Brown stomach worm, goats, .61, 62  
 Burma, rice improvement, .4

## C

*Cajanus cajan*, .65 (fig.)  
*Callosobruchus maculatus*, .104 (fig.)  
 Cambendazole, .124 (fig.)  
 Camel, .55 (fig.), 56  
 Canada, agricultural education, .117  
 enzootic bovine leukosis, .32  
 rabies, .31  
 remote sensing by satellite, .38  
 world cereal futures market and, .102, 103 (fig.)  
 Carbofuran, .111 (fig.), 113  
 Carbon dioxide, pest control in stored grain, .69, 70 (figs.), 71 (figs.)  
 Carrot, herbicide use and, .5 (fig.), 6 (fig.), 7 (fig.), 9, 10  
 Cassava, improvement, .4, 25  
 storage, .105, 107  
 termite damage, .109  
 Cattle, enzootic bovine leukosis in, .31, 32  
 production, Africa, .28 (fig.), 29 (figs.), 30 (figs.), 55, 56, 129 (fig.)  
 rabies in, .31  
*Cavariella aegopodii*, .7  
 Cellulose content, straw, .130  
 Cereals, crop prediction by pollen counts, .84 (figs.)  
 herbicide use in, .5 (fig.), 6 (figs.), 7 (fig.), 9, 10  
 losses in stored, .104 (figs.), 105 (fig.), 106 (fig.)  
 nutritional value, .63  
 world commodity markets, .11, 102 (fig.), 103 (fig.)  
 world production, .63 (fig.)  
 Chickpea, .63 (fig.), 65 (fig.)  
 China, deer farming, .12  
 Hong Kong new town development, .57 (figs.)  
 pest control in stored grain, .70  
 remote sensing by satellite, .38  
 rice improvement, .4  
 rural employment, .57, 58 (fig.), 59  
 world cereal futures market and, .102, 103 (fig.)  
 Chlordane, .110  
 Chlorinated methyl-thiobenzimidazole, .124 (fig.)  
 Chromatography, .85, 86

Climate, deforestation and, . . .75  
 Cloxamide, . .124 (fig.)  
 Closantel, . .124 (fig.)  
 Clover, . .64, 65 (fig.), 67, 69  
 Cockroach, control, . .87  
 Cocoa, international commodity market, . .11, 15  
 Coconut, oil, . .118, 119, 120  
   plant breeding and culture, . .118 (figs.), 119 (figs.), 120  
   world production, . .118  
 Commodity markets, agricultural produce futures, . .11, 15  
   grain futures, . .102 (fig.), 103 (fig.)  
   potato futures, . .11, 78  
   rubber futures, . .11  
 Common Agricultural Policy (CAP), . .10, 51, 103  
 Computers, . .1, 21, 33 (figs.), 34 (figs.), 35 (figs.)  
 Consultative Group on International Agricultural Research (CGIAR), . .3, 4, 15  
 Copra, . .27, 118, 119, 120  
*Coprinus cinereus*, . .130  
*Coptotermes* sp., . .108, 110  
 Coresponsibility levy, . .52  
 Cotton, remote sensing by satellite, . .38  
 Cowpea, . .64, 65 (fig.)  
   improvement, . .4  
   intercropping with maize, . .26, 27, 116 (fig.)  
   losses in storage, . .105 (fig.)  
*Cryptotermes* sp., . .108  
 Cuba, tobacco production, . .82 (fig.)  
 Cyanogens in legumes, . .64, 65  
 Cyathostomes, . .125 (fig.)  
 Cypermethrin, . .87  
 Cyprus, roundworm infection in livestock, . .62

## d

1, 3 D, . .111 (fig.)  
 Dairy production, grassland utilisation and, . .67 (fig.), 68, 69  
   Kenya, . .28 (fig.), 29 (figs.), 30 (figs.)  
   New Zealand, . .20, 22  
 DBCP, . .111 (fig.), 113  
 D-D, . .111 (fig.), 112  
 DDT, . .105  
 Deer farming, . .12 (figs.), 13 (fig.), 14 (figs.), 15  
 Deforestation, . .75  
 Denmark, animal disease control policy, . .32  
   farm finances, . .50 (fig.), 51 (fig.), 52 (figs.)  
 Derris, . .65  
 Desert encroachment, . .53, 54 (fig.)  
 Dichlorvos, . .87, 124 (fig.)  
 Dieltrin, . .110  
 Digestibility, straw, . .130  
 Disophenol, . .124 (fig.)  
*Ditylenchus dipsaci*, . .111 (fig.)  
 Dominican Republic, tomato production, . .74 (fig.)  
 Drainage, tomato cultivation and, . .72 (fig.), 74  
 Drought, desert encroachment and, . .54 (fig.)

## e

EDB, . .111 (fig.)  
 Education, agricultural, distant learning, . .117  
   agricultural, *Rhizobium* inoculants, training courses, . .116  
   agricultural, India, . .88  
   agricultural, UK, . .19  
 Egg production, animal welfare and, . .121 (fig.), 122  
 Energy, costs, effects on agriculture, . .49  
   future of agriculture and, . .1, 19, 20, 21, 23, 24, 25  
   production from plant material, . .1, 49  
 Enzootic bovine leukosis, . .31, 32  
*Ephestia cautella*, . .104 (fig.), 107  
*Eriophyes guerreronis*, . .120  
 Erosion, soil, . .54 (fig.)  
 Ethoprophos, . .111 (fig.), 113  
 Eucalyptus, termite control, . .109, 110  
 Europe, Eastern, world cereals futures market and, . .103 (fig.)  
 European Economic Community (EEC), animal disease control and, . .31, 32  
   farm finances, . .50 (fig.), 51 (figs.), 52 (figs.)  
   future of UK agriculture and, . .18  
   potato marketing and, . .78  
   West German agriculture and, . .10  
   world cereal futures market and, . .102, 103 (fig.)  
 Extension, distant learning, . .117  
   tomato cultivation, . .74

## f

Farm Accountancy Data Network (FADN), . .51  
*Fasciola* spp., . .124 (fig.)  
 Fat composition, goat and sheep carcasses, . .128  
 Favism, . .65  
 Febantel, . .124 (fig.)  
 Feed conversion rates, pig, . .34, 35 (fig.)  
 Fenbendazole, . .124 (fig.)  
 Fencing, red deer farms, . .13, 14  
 Fertiliser use, grassland, . .67 (fig.), 68  
   New Zealand, . .22, 23  
   tomatoes, . .74  
*Festuca rubra*, . .67  
 Flamprop-methyl, . .85  
 Food and Agriculture Organisation (FAO), . .3  
 Food processing, coconut oil, . .118  
   pesticide residues and, . .87  
   tomatoes, . .74 (fig.)  
 Foot and mouth disease, . .31, 32 (fig.)  
 Forestry Survey Project, . .75  
 Forestry, Indonesia, future of, . .24, 25  
   New Zealand, future of, . .20, 21  
 Fox, rabies and, . .31  
 France, crop predictions by pollen counts, . .84 (figs.)  
   farm finances, . .50 (fig.), 51, 52 (fig.)  
   remote sensing by satellite, . .38  
   world cereals futures market and, . .102

French Polynesia, tomato production, . .74 (fig.)  
 Fruit production, UK, . .18, 19  
 Fuel, costs, effects on agriculture and, . .49  
   production from plant material, . .49  
 Fungal diseases, plant, . .74, 120  
   stored crops, . .70, 104, 105  
*Fusarium* spp., . .104  
 Futures market, cocoa, . .11, 15  
   grains, . .11, 102 (fig.), 103 (fig.)  
   potatoes, . .11, 78, 79  
   rubber, . .11, 15

## g

*Gaeumannomyces graminis*, . .6  
 Gamma HCH, . .105  
 Genetic conservation, plant material, . .119, 120  
 Genistein, . .65  
 Germany, Federal Republic of, agricultural policy, EEC and, . .10  
   animal disease control policy, . .32  
   farm finances, . .50 (fig.), 51 (fig.), 52 (fig.)  
   venison imports, . .13, 14 (fig.)  
 Ghana, food storage, . .104 (fig.), 105 (fig.)  
 Glasshouse production, UK, . .18  
*Globodera* spp., . .111 (fig.), 112  
*Glossina* spp., . .98 (fig.), 99 (fig.)  
*Glycine max*, . .65 (fig.)  
 Goat, angora, . .60, 61 (fig.), 62 (fig.)  
   desert encroachment and, . .55 (figs.), 56  
   nematode infections, . .60 (fig.), 61 (fig.), 62 (figs.), 124 (fig.), 125 (fig.), 126 (fig.), 129  
   production, Africa, . .55 (figs.), 56, 127 (fig.), 128 (figs.), 129  
 Goitrogenic substances, legumes, . .65  
 Government, agricultural marketing and, . .76, 77, 100  
   crop protection research and, . .97  
 Grain, commodity markets, . .11, 102 (fig.), 103 (fig.)  
   pest control in stored, . .69, 70 (figs.), 71 (figs.)  
 Granary, . .104 (fig.), 105 (fig.)  
 Granary weevil, . .70 (fig.), 71  
 Grape, crop prediction by pollen counts, . .84 (figs.)  
 Grass pea, . .65 (fig.)  
 Grassland management, 66 (fig.), 67 (fig.), 68 (figs.), 69  
 Groundnut, classification and origin, . .64, 65 (fig.)  
   improvement, . .4  
   pest control, . .70, 111 (fig.)  
   termite damage, . .109 (fig.)  
 Guam, tomato production, . .74 (fig.)

## h

Haemagglutinins, in legumes, . .65  
*Haemonchus contortus*, . .60, 124 (fig.), 125 (fig.)  
 Haloxon, . .124 (fig.)  
*Helicotylenchus* spp., . .111 (fig.)  
*Heliothis* sp., . .26  
 Helminth diseases, goat, . .129  
 Heptachlor, . .110

Herbicides, effects on  
crops, .5 (fig.), 6 (figs.), 7 (figs.),  
8 (figs.), 9, 10  
persistence in soil, .5, 8 (figs.), 9  
research, .97  
residue studies, .85 (fig.), 86 (fig.), 87  
*Heterodera* spp., .111 (fig.), 112  
*Hirsutiella thomsanii*, .120  
*Holcus lanatus*, .67  
Hong Kong, new town  
development, .57 (figs.)  
*Hoplolaimus* spp., .111 (fig.)  
Horse, nematode infections in, .125 (fig.)  
Housefly, control, .87  
Hungary, venison exports, .14 (fig.)  
Hyena, rabies and, .31

## i

India, agricultural education, .88  
cereal output, .15  
rural employment, .58  
termite control, .110  
tobacco production, .80, 81, 82  
wheat improvement, .4  
world cereal futures market and, .103  
Indonesia, agriculture in, .24,  
25, 26, 27  
deforestation, irrigation and, .75  
termite damage to buildings, .109  
tomato production, .74  
Inoculation, seed, with  
*Rhizobium*, .114 (figs.), 115 (fig.), 116  
Insect behaviour, tsetse, .98 (fig.),  
99 (fig.)  
Insect pests, stored grain, .104  
termites, .108, 109, 110  
Insecticides, formulation for  
domestic use, .87  
residue studies, .85, 86 (fig.), 87  
stored crops, and use of, .105 (fig.),  
106 (fig.)  
termite control, .110  
Integrated Project in Arid Lands  
(IPAL), .53 (fig.), 54 (fig.), 55 (figs.),  
56 (fig.)  
Intensive livestock production,  
welfare of animals, .121 (fig.), 122,  
123 (fig.)  
International Board for Plant  
Genetic Resources (IBPGR), .3  
International Centre for Agricultural  
Research in Dry Areas (ICARDA), .3, 4  
International Centre for Tropical  
Agriculture (CIAT), .3, 4  
International Commodities Clearing  
House Ltd., .11  
International Crops Research Institute  
for the Semi-Arid Tropics  
(ICRISAT), .3  
International Fertiliser Development  
Centre (IFDC), .4  
International Food Policy Research  
Institute (IFPRI), .4  
International Institute of Tropical  
Agriculture (IITA), .3, 4  
International Laboratory for  
Research on Animal Diseases  
(ILRAD), .3  
International Livestock Centre for  
Africa (ILCA), .3  
International Maize and Wheat  
Improvement Centre (CIMMYT), .3, 4  
International Potato Centre (CIP), .3, 4  
International Rice Research Institute  
(IRRI), .3, 4  
International Service for National  
Agricultural Research (ISNAR), .3  
Ireland, farm finances, .50 (fig.), 52

Irrigation, deforestation and, .75  
terrace cultivation and, .132, 133  
Italy, farm finances, .50 (fig.),  
51 (fig.), 52  
Ivermectin, .124 (fig.)

## j

Jackal, rabies and, .31  
Japan, rural employment, .59

## k

Kenya, cattle production, .28  
(fig.), 29 (figs.), 30 (figs.)  
crop storage losses, .104 (figs.),  
105 (fig.), 107 (fig.)  
desert encroachment, .53 (fig.), 54 (fig.),  
55 (figs.), 56 (fig.)  
goat production, .127 (fig.), 129  
Integrated Project in Arid Lands  
(IPAL), .53 (fig.), 54 (fig.), 55 (figs.),  
56 (fig.)  
*Rhizobium* inoculation, training  
course, .116  
tomato production, .74 (fig.)  
Kidney bean, .65 (fig.)

## l

Land use, Indonesia, .24, 25, 26  
New Zealand, .20  
remote sensing by satellite, .38  
UK, .66 (fig.), 67  
USSR, .36  
Lapland, reindeer, .12  
Lathyrism, .65  
*Lathyrus sativan*, .65 (fig.)  
Latin America, international  
agricultural research, .3  
tomato production, .74 (fig.)  
Lauric acid, coconut oil, .118  
Lectins, legumes, .64, 65  
Legumes, classification and  
origins, .65 (fig.)  
future of, .22, 24, 25  
losses in stored, .104 (fig.), 105 (fig.)  
nematode control, .111 (fig.)  
*Rhizobium* inoculation, .114 (figs.),  
115 (fig.)  
*Lens culinaris*, .65 (fig.)  
Lentil, .65 (fig.)  
Lesser grainborer, .70 (fig.)  
Lettuce, pesticide residue studies, .86  
(fig.), 87  
*Leucaena leucocephala*, .116  
Levamisole, .62, 124 (fig.)  
Lignin in straw, digestibility  
and, .130  
Lima bean, .64, 65 (fig.)  
Lindane, .105 (fig.)  
Linuron, .5, 6 (fig.), 7 (fig.),  
8 (fig.), 9  
Livestock production, animal welfare  
and, .121 (fig.), 122, 123  
deer, .12 (figs.), 13 (fig.), 14 (figs.), 15

desert encroachment and, .54 (fig.),  
55 (figs.), 56  
goats, .60 (fig.), 61 (fig.), 62 (figs.),  
127 (fig.), 128 (figs.), 129 (fig.)  
grassland utilisation and, .67 (figs.),  
68 (fig.)  
Indonesia, .25  
New Zealand, .21  
sheep, .36, 37 (figs.)  
UK, .16, 17  
*Lolium perenne*, .67  
Lucerne, .65 (fig.)  
*Lupinus* spp., .64 (fig.), 65 (fig.)  
Luxembourg, farm incomes, .50 (fig.)  
Lysine content, pulses, .63

## m

Madeira, terrace cultivation, .132  
Maize, improvement, .4  
losses in stored, .104 (fig.), 105 (fig.),  
106 (fig.), 107 (fig.)  
mixed cropping, .26, 27, 116 (fig.)  
nematode control, .111 (fig.)  
simazine, use and, .5 (fig.), 6 (fig.),  
7 (fig.), 9, 10  
termite damage, .109 (fig.)  
world futures market, .102 (fig.), 103  
world production, .63 (fig.)  
Malathion, .105 (fig.), 106  
Malawi, food storage losses, .104 (fig.),  
105 (fig.)  
tobacco production, .80, 81, 82 (fig.)  
Malaysia, *Rhizobium* inoculation training  
course, .116  
rural employment, .58 (fig.), 59  
termite control, .110  
tobacco production, .82  
tomato production, .74  
Mali, food storage losses, .104 (fig.)  
*Marasmiellus cocophilus*, .120  
Marketing, agricultural produce, .76,  
77, 100, 101  
tobacco, .81, 82 (fig.)  
tomatoes, .73  
*Mastomys natalensis*, .104  
MCPA, .5, 6 (figs.), 7 (fig.), 8 (fig.), 9  
Mebendazole, .124 (fig.)  
Mechanisation, .49  
future of, .1, 17, 23  
investment in EEC countries, .51  
rural population in Asia and, .57  
terrace cultivation and, .132 (figs.),  
133 (figs.)  
*Medicago sativa*, .65 (fig.)  
*Meloidogyne* spp., .111 (fig.), 112 (fig.)  
Metabolisable energy, fertiliser use  
and, .67 (fig.), 68, 69  
Methoprene, .110  
Methyl bromide, .110  
Mevinphos, residue studies, .86  
(fig.), 87  
Mexico, remote sensing by  
satellite, .38  
*Rhizobium* inoculation, training  
course, .116  
Milk production, .28, 29 (figs.),  
30 (figs.)  
Millet, losses in stored, .104 (fig.)  
Mite, .69  
MK-933, .124 (fig.)  
Monetary Compensatory Amounts  
(MCAs), .10  
Morantel, .62, 124 (fig.)  
Mulching, tomatoes, .73 (figs.), 74  
Mung bean, .64, 65 (fig.)  
Myristic acid, .118

# n

Napthalophos, . . .124 (fig.)  
 Nematode diseases,  
   animal, . . .123, 124 (figs.), 125 (fig.),  
     126 (fig.), 129  
   plant, . . .73, 111 (fig.), 112 (figs.),  
     113 (fig.)  
 Nepal, wheat improvement, . . .4  
 Netherlands, Aujeszky's disease, . . .32  
   farm finances, . . .50 (fig.), 51 (fig.), 52  
 New Zealand, agriculture in, . . .20,  
   21, 22, 23  
   deer farming, . . .12 (figs.), 13 (fig.),  
     14 (fig.), 15  
 Nicaragua, tomato production, . . .74 (fig.)  
 Nigeria, food storage, . . .104 (fig.),  
   105 (fig.), 106 (fig.)  
   losses due to termites, . . .109  
   (figs.), 110 (fig.)  
 Nitrogen, grain storage under, . . .69  
 Nitrogen fixation,  
   research, . . .4, 114 (figs.), 115 (fig.),  
   116 (fig.)  
 Nitroxylnil, . . .124 (fig.)

# O

Oats, world futures market, . . .103  
*Odontotermes* sp., . . .109 (fig.), 110 (fig.)  
 Oestrogenic substances in soyabean, . . .65  
 Olives, crop prediction by pollen  
   counts, . . .84 (figs.)  
 Onion, nematode control, . . .111 (fig.)  
 Organophosphate, anthelmintic action, . .  
   124 (fig.)  
*Ostertagia* spp., . . .61, 62, 124 (fig.)  
 Oxamyl, . . .111 (fig.), 113  
 Oxfendazole, . . .124 (fig.)  
 Oxibendazole, . . .124 (fig.)

# p

Pakistan, agricultural education, . . .117  
   wheat improvement, . . .4  
 Palm, coconut, . . .118 (fig.), 119 (figs.), 120  
   oil, . . .118  
 Panama, deforestation and  
   irrigation, . . .75  
   tomato production, . . .74 (fig.)  
 Papua New Guinea, tomato  
   production, . . .74  
 Paraguay, remote sensing by  
   satellite, . . .38  
*Paratrichodorus christiei*, . . .111 (fig.)  
 Parbendazole, . . .124 (fig.)  
 Pea, classification and origin, . . .65 (fig.)  
   nematode control, . . .111 (fig.)  
   world production, . . .63 (fig.)  
 Peanut, *see* groundnut  
 Pear production, . . .18, 19  
 Peat, carrier for *Rhizobium* inoculum, . . .116  
*Penicillium* spp., . . .104  
 Pest control, coconuts, . . .120  
   future of, . . .1, 2, 23, 26  
   nematodes, . . .111 (fig.), 112 (figs.), 113  
   stored grain, . . .69, 70 (figs.), 71 (figs.),  
     105 (fig.), 106 (fig.)  
   termites, . . .109, 110

tomatoes, . . .74  
 Pest damage, termites, . . .108 (fig.).  
   109 (figs.), 110 (fig.)  
 Pesticides, . . .97  
   application, . . .88, 106, 112 (fig.),  
     113, 132 (fig.), 133  
   domestic presentation, . . .87  
   natural products, . . .65  
   residues studies, . . .85 (fig.), 86 (figs.), 87  
*Phaseolus* spp., . . .64, 65 (fig.)  
 Phenamiphos, . . .111 (fig.), 113  
 Phenothiazine, . . .124 (fig.)  
 Philippines, rice improvement, . . .4  
   rural industry, . . .59  
   tobacco production, . . .80 (fig.)  
   tomato production, . . .74  
 Phosphine, . . .105 (fig.), 106  
*Phytomonas staheli*, . . .120  
*Phytophthora palmivora*, . . .120  
 Pig production, animal welfare  
   and, . . .122 (fig.), 123 (fig.)  
   computers and, . . .33 (figs.), 34 (figs.),  
     35 (figs.)  
   disease control, . . .31, 32 (fig.)  
 Pigeon pea, . . .65 (fig.)  
 Pineapple, nematode  
   control, . . .111 (fig.), 112, 113  
 Piperazine, . . .124 (fig.), 125  
 Pirimiphos-methyl, . . .105 (fig.), 106  
*Pisum* sp., . . .63, 65 (fig.)  
 Plant breeding,  
   coconut, . . .118 (fig.), 119 (figs.), 120  
   future of, . . .1, 2, 24, 25, 26  
   international research, . . .4  
   rice, . . .26, 27  
   tomato, . . .72 (fig.), 73  
 Planter, rotary jab, . . .132 (fig.), 133  
 Planthopper, brown, . . .26, 27  
 Plastic mulch, . . .72 (fig.), 74  
 Pleuropneumonia, caprine, . . .129  
 Pollen counts, crop predictions  
   and, . . .83 (figs.), 84 (fig.)  
 Pollination, legumes, . . .63, 64  
 Population changes, agriculture  
   and, . . .25, 26, 49, 54 (fig.), 57, 59  
 Potato, futures markets, . . .11, 78, 79 (fig.)  
   improvement, . . .4  
   nematode control, . . .111 (fig.)  
   remote sensing by satellite, . . .38  
 Poultry production, animal welfare  
   and, . . .121 (fig.), 122  
   Indonesia, . . .26  
*Pratylenchus* spp., . . .111 (fig.)  
 Protease inhibitors, legumes, . . .64, 65  
 Protein, human nutrition and legume, . . .63  
 Prussic acid, peas, . . .65  
 Pyrethroid insecticide, domestic  
   presentation, . . .87  
 Pyrethrum, . . .105, 106

# q

*Quelea quelea*, . . .104

# r

Rabies, . . .31, 32 (fig.)  
*Radopholus similis*, . . .111 (fig.), 112,  
   113 (fig.)  
 Rafoxanide, . . .124 (fig.), 125  
 Reindeer, . . .12  
 Remote sensing by satellite, . . .38, 75  
 Research, crop protection, . . .97  
   international agricultural, . . .3, 4, 15

nitrogen fixation, . . .114 (figs.),  
   115 (fig.), 116 (fig.)  
 tomato improvement, . . .72 (figs.),  
   73 (figs.), 74 (figs.)  
 Residues, pesticide in  
   plants, . . .85 (fig.), 86 (figs.), 87  
 Reunion, tomato production, . . .74 (fig.)  
*Rhadinaphelenchus cocophilus*, . . .120  
*Rhizobium*, . . .4, 63, 114 (figs.),  
   115 (fig.), 116 (fig.)  
*Rhizopertha dominica*, . . .70 (fig.), 104 (fig.)  
*Rhynchosporium secalis*, . . .7  
 Rice, improvement, . . .26  
   international research, . . .4  
   pesticide application, . . .88  
   production and consumption,  
     Indonesia, . . .24, 25  
   remote sensing by satellite, . . .38  
   world futures market, . . .102 (fig.)  
 Rodent pests, stored crops, . . .104  
 Roundworm infections,  
   livestock, . . .60 (fig.), 61 (fig.),  
   62 (figs.), 124 (fig.), 125 (fig.),  
   126 (fig.), 129  
 Rubber, commodity market, . . .11, 15  
   exports, Indonesia, . . .27  
   pest control, . . .110  
 Runner bean, . . .64, 65 (fig.)  
 Rural development,  
   Asia, . . .57 (figs.), 58 (figs.), 59  
 Rust-red flour beetle, . . .70 (fig.)  
 Ryegrass, . . .67

# s

Saint Lucia, terrace  
   cultivation, . . .131 (fig.)  
 Sahara, pollen trap, . . .83  
 Sahel, desert encroachment, . . .53, 54  
 Saponins, in legumes, . . .65  
 Satellite, remote sensing  
   by, . . .38, 75  
 Saudi Arabia, termite damage, . . .108 (fig.)  
 Sausage casing manufacture, . . .58 (fig.)  
 Seed drills, . . .133  
 Seychelles, terrace cultivation, . . .132  
 Sheep, nematode  
   infections, . . .61, 62, 124  
   (fig.), 125 (fig.), 126 (fig.)  
 Sheep production,  
   Africa, . . .55 (figs.), 56, 127, 128,  
   129 (fig.)  
   economics of, . . .14 (fig.)  
   USSR, . . .36, 37 (figs.)  
 Sierra Leone, tomato  
   production, . . .74  
 Silage, treated straw in, . . .130  
 Silo, grain, . . .71 (figs.), 104 (fig.),  
   105 (fig.)  
 Simazine, . . .5, 6 (fig.), 7 (fig.),  
   8 (fig.), 9  
 Singapore, tomato production, . . .74  
*Sitophilus* spp., . . .70 (fig.), 71, 104 (fig.)  
*Sitotroga* spp., . . .104 (fig.)  
 Skunk, rabies and, . . .31  
 Soap manufacture, . . .118  
 Soil acidity, *Rhizobium* and, . . .115, 116  
 Soil, erosion, . . .54 (fig.), 75  
   fertility, herbicide use  
   and, . . .5 (fig.), 6 (figs.), 7 (figs.),  
   9, 10  
   pesticide residues, . . .85 (fig.), 86 (figs.), 87  
 Solomon Islands, aerial spraying, . . .88  
 Sorghum, losses in stored  
   grain, . . .104 (fig.), 106 (fig.),  
   107 (fig.)  
   remote sensing by satellite, . . .38  
   world futures market, . . .102 (fig.), 103

South America, rabies, . .31  
*Rhizobium* inoculation, . .115 (fig.)  
 South Korea, tobacco  
 production, . .80  
 tomato production, . .74  
 Soya bean, classification and  
 origin, . .65 (fig.)  
 improvement, . .4  
 nematode control, . .111 (fig.)  
 remote sensing by satellite, . .38  
 toxic substances in, . .65  
 world production, . .63 (fig.)  
 Spraying techniques, pesticides, . .88,  
 132 (fig.), 133  
 Sri Lanka, terrace cultivation, . .132  
 tomato production, . .74  
 Straw, digestibility, . .130  
 Sudan, food storage losses, . .104 (fig.)  
 Sugar cane, nematode control, . .111  
 (fig.), 113  
 processing, . .58 (fig.)  
 Sulphuryl fluoride, . .110  
 Sunflower, remote sensing  
 by satellite, . .38  
 Swaziland, crop storage, . .106 (fig.)  
 Sweet potato, improvement, . .4  
 Swine vesicular disease, . .31, 32 (fig.)

## t

Taiwan, rural employment, . .58, 59  
 tomato production, . .74 (fig.)  
 Tanzania, food storage  
 losses, . .104 (fig.)  
 Tapeworm infections, . .129  
 Taxation, farmers in EEC countries, . .52  
 Tepary bean, . .64, 65 (fig.)  
 Termite, . .108 (fig.), 109, 110  
 Terrace cultivation, . .131 (figs.),  
 132, 133  
 Tetrachlorvinphos, . .105 (fig.), 106  
 Thailand, tomato production, . .74 (fig.)  
 Thiabendazole, . .124 (fig.), 125  
 Thiophanate, . .124 (fig.)  
 Tick, . .129  
 Tissue culture, plant breeding  
 and, . .120  
 Tobacco production, . .80 (fig.), 81 (fig.),  
 82 (figs.)  
 Togo, food storage, . .105 (fig.)  
 tomato production, . .74 (fig.)  
 Tomato, improvement, . .72 (figs.),  
 73 (figs.), 74 (figs.)  
 nematode control, . .111 (fig.)  
 Tonga, tomato production, . .74 (fig.)  
 Tractor, . .49  
 pedestrian controlled, . .133 (fig.)  
 prices, . .49  
 Tri-allate, . .5, 6 (figs.), 7 (figs.),  
 8 (fig.), 9, 10  
*Tribolium castaneum*, . .70 (fig.), 104  
 (fig.), 107  
 Trichlorphon, . .124 (fig.)  
*Trichostrongylus* spp., . .61, 125 (fig.),  
 126 (fig.)  
*Trifolium* spp., . .65 (fig.)  
 Triticale, international research, . .3  
 Tropical Agriculture Association, . .87  
 Trypanosomiasis, . .98, 127, 129  
 Tsetse, . .98 (fig.), 99 (fig.), 129  
 Turkey, tobacco exports, . .80

## u

Uganda, food storage losses, . .104 (fig.)  
 UK, animal disease control  
 policy, . .31, 32 (figs.)  
 deer farming, . .12 (figs.), 13 (fig.),  
 14 (fig.)  
 farm finances, . .50 (fig.), 51 (fig.),  
 52 (fig.)  
 future of agriculture in, . .16, 17, 18, 19  
 grassland, . .66 (fig.), 67  
 land use, . .66 (fig.), 67  
 Open University, . .117  
 potato futures market, . .78, 79  
 Ultra low volume (ULV) spraying,  
 pesticides, . .88  
 UNCTAD, . .15  
 UNESCO, Integrated Project in Arid Lands,  
 (IPAL), . .53  
 United Nations Development  
 Programme (UNDP), . .3  
 USA, Agency for International Development  
 (AID), . .75  
 agricultural education, distant  
 learning, . .117  
 potato futures market, . .78, 79  
 rabies, . .31  
 remote sensing by satellite, . .38  
 world cereal futures market  
 and, . .102, 103 (fig.)  
 USSR, agricultural education, . .117  
 deer farming, . .12, 14 (fig.)  
 remote sensing by satellite, . .38  
 sheep production, . .36, 37 (figs.)  
 wool production, . .36, 37 (figs.)  
 world cereal futures market  
 and, . .102, 103 (fig.)

## v

Vampire bat, rabies and, . .31  
 Veal production, . .122  
 Vegetable research, Asia, . .101  
 Venison production, . .12 (figs.),  
 13 (fig.), 14 (figs.), 15  
 Vetch, nematode damage, . .112 (fig.)  
*Vicia faba*, . .64 (fig.), 65 (fig.)  
*Vigna* spp., . .64, 65 (fig.)  
 Virus diseases, tomato, . .74

## w

Water requirements, livestock, . .128  
 Water resources, deforestation and, . .75  
 desert encroachment and, . .54 (fig.)  
 Weather, forecasting, . .2  
 observations by satellite, . .38  
 Weed Research Organisation, . .97  
 Weevil, pest in stored  
 grain, . .69, 70 (fig.), 71, 104  
 West Africa Rice Development  
 Association (WARDA), . .3  
 Wheat, herbicide use  
 on, . .5 (fig.), 6 (figs.), 7 (fig.), 9, 10  
 international research, . .4  
 pest control in stored, . .70, 71  
 pesticide residues, . .85 (fig.)  
 remote sensing by satellite, . .38

termite damage, . .109  
 world futures market, . .102 (fig.), 103  
 (fig.)  
 world production, . .63 (fig.)  
 Windward Islands, banana  
 production, . .133 (fig.)  
 Wine, crop prediction by pollen  
 counts, . .84 (figs.)  
 Wool production, New Zealand, . .21  
 USSR, . .36, 37 (figs.)  
 World Bank, . .3, 58

## y

Yam, crop storage, . .105, 107  
 termite damage, . .109 (fig.)  
 Yam beetle, control, . .110  
 Yemen Arab Republic, terrace  
 cultivation, . .131 (fig.), 132  
 Yields, barley, . .6 (fig.), 7 (fig.)  
 carrots, . .7 (fig.)  
 copra, . .119  
 maize, . .7 (fig.)  
 milk, . .29 (fig.)  
 predicting, . .83, 84 (fig.)  
 tomatoes, various countries, . .74 (fig.)  
 wheat, . .6 (fig.), 7 (fig.)  
 wool, . .36, 37

## z

*Zabrotes subfasciatus*, . .104 (fig.)  
 Zambia, food storage,  
 losses, . .104 (fig.), 105, 107 (fig.)  
 tobacco production, . .81  
 Zimbabwe, food storage losses, . .104 (fig.)  
 tobacco production, . .81, 82 (fig.)



